Application No.: National Phase of PCT/JP2005/000981 Docket No.: TAW-015US

AMENDMENTS TO THE CLAIMS

- 1. (original) A piezoelectric body comprising a conductive powder compact comprising a conductive polymer and a dopant, and an ion donor, whereby an electromotive force is generated by stress change.
- 2. (original) The piezoelectric body according to claim 1, wherein said conductive polymer has a conjugated structure.
- 3. (currently amended) The piezoelectric body according to claim 1 or 2, wherein said conductive polymer is at least one selected from the group consisting of polypyrrole, polythiophene, polyaniline, polyacetylene and their derivatives.
- 4. (currently amended) The piezoelectric body according to any one of claims 1-3claim 1, wherein said ion donor is in the form of a solution, a sol, a gel or a combination thereof.
- 5. (currently amended) The piezoelectric body according to any one of claims 1-4claim 4, wherein said ion donor functions as a binder.
- 6. (currently amended) The piezoelectric body according to any one of claims 1-5 claim 4, wherein said ion donor contains an amphiphatic compound.
- 7. (currently amended) The piezoelectric body according to any one of claims 1-6 claim 1, wherein the amount of said conductive polymer in said conductive powder is 1-99.9% by mass.

Application No.: National Phase of PCT/JP2005/000981

8. (currently amended) The piezoelectric body according to any one of claims 1 claim 1, wherein said conductive powder has electric resistance of $10^{-7} \Omega$ to $1 M\Omega$.

Docket No.: TAW-015US

- 9. (currently amended) The piezoelectric body according to any one of claims 1-8claim 1, wherein said conductive polymer has an average particle size of 10 nm to 1 mm.
- 10. (currently amended) An electric generator comprising the piezoelectric body recited in-any one of claims 1-9 claim 1, and a means for changing stress applied to said powder compact, wherein said ion donor is released from and/or absorbed by said powder compact by compressing and/or extending said powder compact with said stress-changing means so as to generate said electromotive force.
- 11. (currently amended) A polymer actuator comprising the piezoelectric body recited in any one of claims 1–9 claim 1, a work electrode and a counter electrode, wherein said work electrode is in contact with said powder compact, wherein said counter electrode is disposed at a position separate from said powder compact in said ion donor, whereby said powder compact contracts or extends when voltage is applied between said work electrode and said counter electrode.
- 12. (original) The polymer actuator according to claim 11 comprising plural powder compacts arranged in tandem in said ion donor.

Application No.: National Phase of PCT/JP2005/000981 Docket No.: TAW-015US

13. (currently amended) An energy-generating/recovering system comprising at least a pair of the polymer actuators recited in claim 11-or-12, wherein the contraction or extension of one powder compact is transmitted to the other powder compact to change its stress, so that the other powder compact generates an electromotive force.